



INTAREMA® T, TE

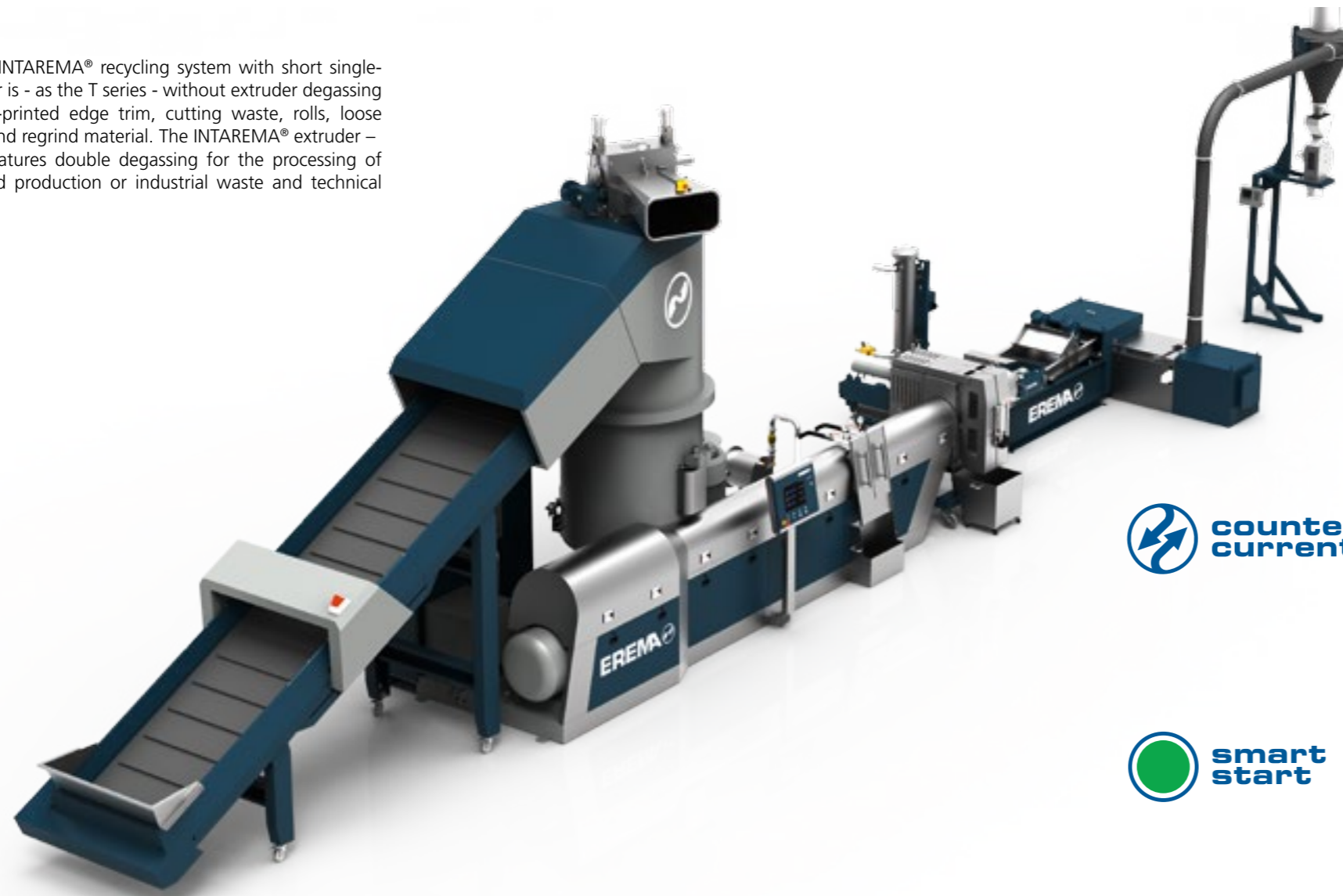
Recycling systems for thermoplastics

CHOOSE THE NUMBER ONE.

INTAREMA® T, TE

Performance and flexibility for a fast ROI.

The compact INTAREMA® recycling system with short single-screw extruder is - as the T series - without extruder degassing ideal for non-printed edge trim, cutting waste, rolls, loose leftover film and regrind material. The INTAREMA® extruder - TE series - features double degassing for the processing of slightly printed production or industrial waste and technical polymers.



counter
current®



smart
start



INTAREMA® at a glance:

1. Counter Current technology

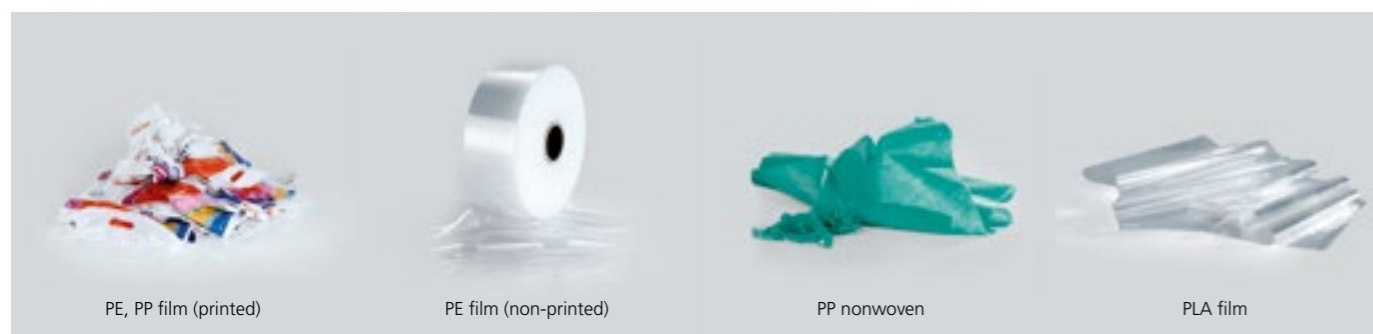
- **Highest process stability through improved material intake** ensures constantly high output over a considerably broader temperature range
- **Higher flexibility** and operational reliability with a variety of materials
- **Increased throughputs** with the same plant size for more productivity

2. Smart Start

- **Remarkably easy to operate** thanks to logical, clearly structured and simplified handling and ultramodern, ergonomic touchscreen display
- **Fewer buttons, more user-friendliness** – thanks to high degree of automation including extensive control packages
- **The right recipe for every application** – saved processing parameters can be loaded easily and conveniently from the recipe management system at the push of a button

3. ecoSAVE®

- **Lower specific energy requirements** thanks to a complete package featuring design and process engineering measures including the new direct drive for the extruder screw
- **Lower production costs** through optimised control technology and high-quality, energy-efficient components such as high-performance motors
- Additionally, the practical **energy display** on your operating panel gives you a constant overview of energy consumption at all times, thus enabling you to take specific measures to optimise consumption
- **Reduced CO₂ emissions** – an important contribution to environmental protection

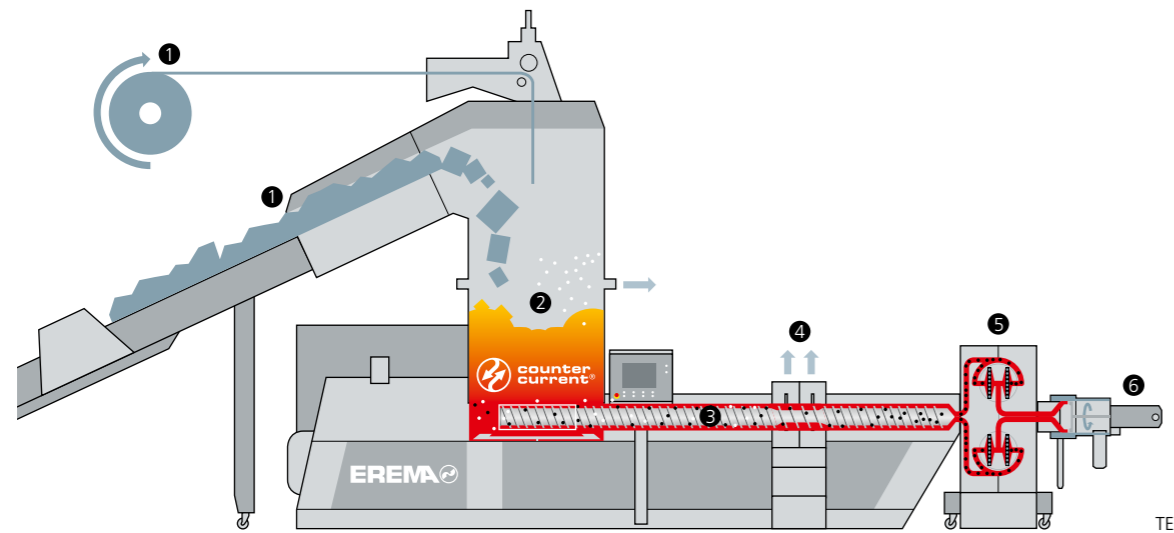


PE, PP film (printed)

PE film (non-printed)

PP nonwoven

PLA film



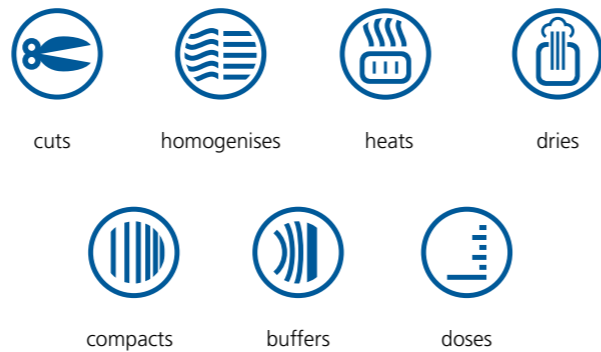
How it works

Feeding ① is automatic according to customer requirements. The material is cut, mixed, heated, dried, compacted and buffered in the patented **cutter/compactor ②**. Next, the tangentially connected extruder is filled continuously with hot, pre-compacted material. The **innovative Counter Current technology** enables optimised intake action across an extended temperature range.

In the **extruder screw ③** the material is plasticised, homogenised and, if necessary, degassed in the **degassing zone ④ (TE)**. The melt is then cleaned in the **fully automatic, self-cleaning filter ⑤**. Following this, the melt is conveyed to the respective **tool ⑥** (e.g. pelletiser) under extremely low pressure.

② Centrepiece cutter/compactor.

The dynamically controlled preconditioning unit. For an end product in consistently high quality.

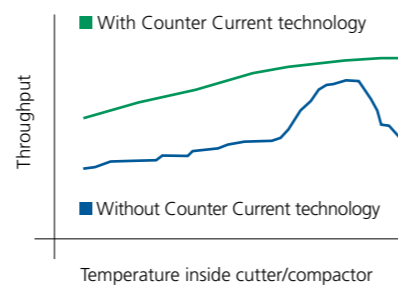


Counter Current – a groundbreaking innovation.



In the past the material inside the cutter/compactor turned in the same direction as the extruder - forwards. The patented Counter Current technology now changes the direction of rotation inside the cutter/compactor: the plastic material thus moves in the opposite direction to that of the extruder screw. A simple effect with a major impact. Because the relative speed of the material in the intake zone, i.e. when passing from the cutter/compactor to the extruder, increases to such an extent that the extruder acts in the same way as a sharp edge which literally “cuts up” the plastic.

The result: the extruder handles more material in a shorter time. Thanks to the enhanced material intake plastic can additionally be processed even at lower temperatures at a high throughput. **Fully in keeping with higher productivity, flexibility and reliability.**

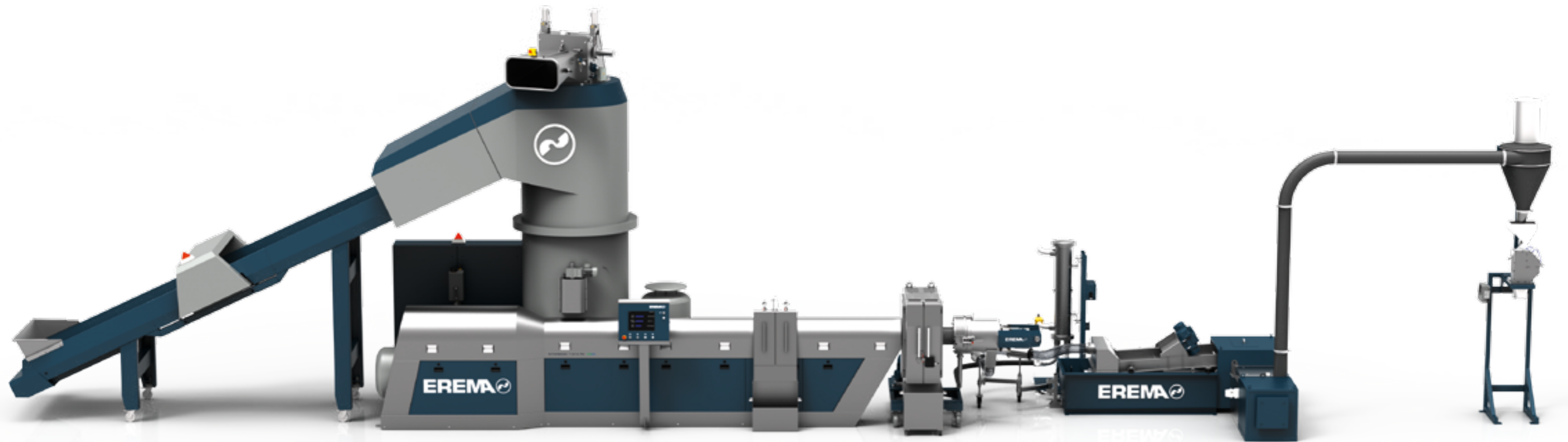


Technical benefits

- **Enhanced material intake, greater flexibility and higher throughput rates** thanks to Counter Current technology
- **Patented large EREMA cutter/compactor** ensures optimum material preparation for the extruder
- **HG D (hot die face pelletising system with Direct Drive technology)** – state-of-the-art pelletising technology
- **Liquid-cooled extruder** enables efficient and exact temperature control for the extruder zones and thus high-quality processing of the melt
- **Large area ultra-fine melt filtration** supplied as standard
- **Innovative, patented additional technologies for the EREMA cutter/compactor** – DD system and Air Flush Module (optional) widen the scope of application

Economic benefits

- **High-quality end product** allows a very high recycled pellet content when material is returned to the production cycle
- **ecoSAVE® reduces energy consumption by up to 10%** as well as production costs and CO₂ emissions as a result
- **Extremely easy operation and maximum user-friendliness** with the Smart Start principle
- **Very low operating costs** through extremely low specific energy and maintenance costs
- **Reliable, high output** thanks to Counter Current technology and very robust design
- **Compact, space-saving design**



Innovative, patented additional technologies

- With **patented Double Disc (DD) technology** materials with up to **12 % residual** moisture can be processed with consistently high output
- The **patented Air Flush Module increases drying performance** and output while ensuring lower energy consumption and extending plant service life
- **Optimised large EREMA cutter/compactor**
 - **Output up to 30 % higher** than on conventional extruders thanks to extremely uniform feeding of the tangentially connected extruder
 - **Direct admixing of masterbatch and additives possible**
 - **No pre-shredding is necessary for 95 % of all materials**

Technical data INTAREMA® T und TE

Average output capacity in kg/h*						Systems available
PE-LD, PE-LLD, PE-HD		BOPP		BOPET		
min.	max.	min.	max.	min.	max.	
50	100	50	100	80	130	INTAREMA 605 T,TE
100	200	100	200	130	180	INTAREMA 756 T,TE
150	275	150	300	170	220	INTAREMA 906 T,TE
200	350	200	450	250	280	INTAREMA 1007 T,TE
270	450	270	600	330	380	INTAREMA 1108 T,TE
300	550	300	700	380	480	INTAREMA 1309 T,TE
400	700	400	850	480	600	INTAREMA 1310 T,TE
650	1000	650	1200	700	950	INTAREMA 1512 T,TE
800	1300	800	1600	900	1150	INTAREMA 1714 T,TE
1100	1700	1100	2000	1200	1450	INTAREMA 1716 T,TE
1400	2100	1400	2300	1500	1800	INTAREMA 2018 T,TE
1700	2800	1700	3000	1800	2100	INTAREMA 2021 T,TE

*) Depending on machine type (T or TE) and material properties such as residual moisture, print, degree of contamination, etc.
 Maximum output refers to T series.
 Series T ... extruder without degassing
 Series TE ... extruder with double degassing in classic configuration

The specialists in plastic

Headquarters & Production Facilities

EREMA Engineering Recycling
Maschinen und Anlagen Ges.m.b.H.
Unterefeldstraße 3 / A-4052 Ansfelden / Austria
Phone: +43 (0)732/31 90-0 / Fax: -23
erema@erema.at / www.erema.at

Subsidiaries

3S
SCHNECKEN + SPINDELN + SPIRALEN
Bearbeitungsges.m.b.H
Pühretstraße 3 / A-4661 Roitham / Austria
Phone: +43 (0)7613/5004 / Fax: -5005
office@3s-gmbh.at / www.3s-gmbh.at

EREMA NORTH AMERICA INC.
23 Old Right Road - Unit#2 / Ipswich, MA 01938 / USA
Phone: +1 978 356-3771 / Fax: -9003
erema@erema.net / www.erema.net

EREMA Shanghai Office
Room 1009 / Tomson Financial Building
710 Dong Fang Road / Pudong / Shanghai China (200122)
Phone: +86 21 6876-6201, -6204 / Fax: -6203
erema@erema.com.cn / www.erema.at

More questions?

We would be pleased to answer them!

Your EREMA advisor will be pleased to attend to your request personally and quickly. If you are interested in a demonstration or a test run with your specific material it would be a pleasure for us to make an appointment and welcome you to our EREMA Customer Centre at the headquarters in Ansfelden, near Linz in Austria.

We look forward to seeing you at EREMA!

For worldwide representatives please visit www.erema.at

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Print: Estermann GmbH
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English